

Item #10
April 20, 2011
Energy Commission Business Meeting

CLIPPER CREEK, INC.

**Amendment #1 to Grant Agreement ARV-10-001
for the**

**Update Existing Electric Vehicle Infrastructure to
SAE-J1772™ Without Stranding Existing Drivers Project**

Summary

This amendment will provide an additional \$400,000 to develop the interface to provide metering data and load management control from electric vehicle supply equipment (EVSE) to the utilities' smart grid. This will supplement the existing Clipper Creek agreement of \$1,900,000 to upgrade existing EVSE in California to the SAE-J1772 standard.

In the existing agreement, ClipperCreek will update at least 500 existing California EVSE to the new SAE-J1772™ standard. In addition, ClipperCreek will refurbish and allow inductive and paddle infrastructure to remain on the sites where they are being used by current electric vehicles. ClipperCreek will install meters on the EVSE, as directed by the local utility, to allow for monitoring and utility management. The Energy Commission provided \$1,900,000 in Alternative and Renewable Fuel and Vehicle Transportation program funds with additional match funding of approximately \$1 million provided by the project participants.

The goal of this project is to provide a low cost and low risk option to upgrading existing electric vehicle infrastructure in California. This will support existing and proposed rollouts of electric and plug-in hybrid vehicles. The goal of this amendment is to allow utilities the ability to collect EVSE data and manage load.

Benefit

These stations will have a positive benefit on electric and plug-in hybrid electric vehicle sales. Annual GHG savings for each electric vehicle is estimated at 9.3 tons of CO₂. Additional funds will enable utilities connected to Clipper Creek's EVSE to collect data and manage the EVSE load.

Participants

ClipperCreek, as its predecessor company, EVI, installed at least half of the existing electric vehicle infrastructure in California. In many cases, this will allow reuse of the existing pedestal to avoid any costly trenching or concrete work. ClipperCreek's pedestals are designed to the standard infrastructure footprint avoiding costly upgrade work.

EVConnect is made up of a seasoned staff who installed most of the existing infrastructure in Southern California. This company has the experience and the relationships necessary to facilitate this process and quickly get the work done.

Tom Dowling over the last 7 years has been instrumental in the maintenance and logging of EV infrastructure in California. He will expedite contacting site owners and completion of work.

PrePlastics, Quality Metal Works, MasterWorks, and Nelson NamePlate are California companies that will supply materials to ClipperCreek.

Implementation Schedule

All of the infrastructure will be upgraded by February 2013.